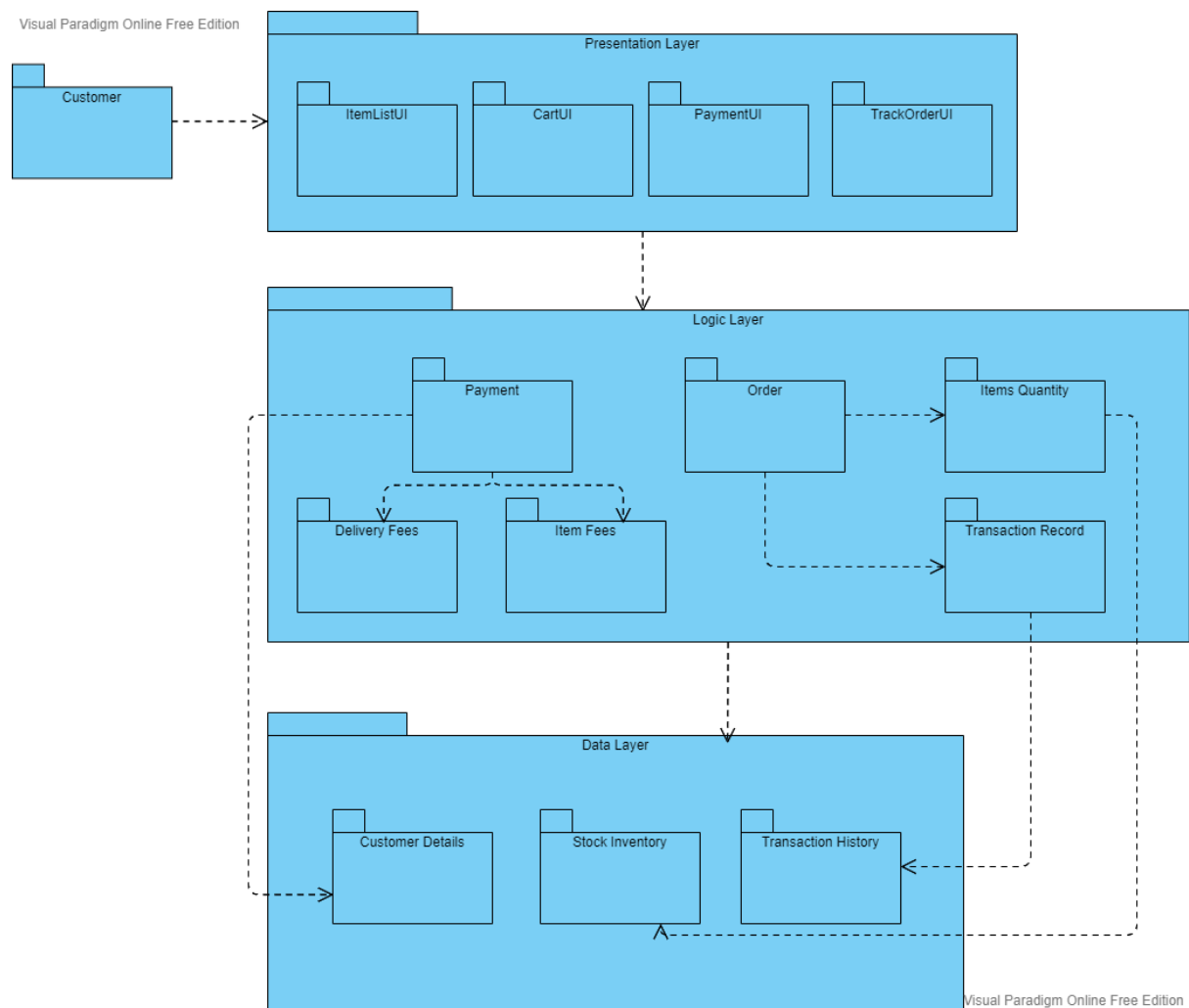


UML Assignment

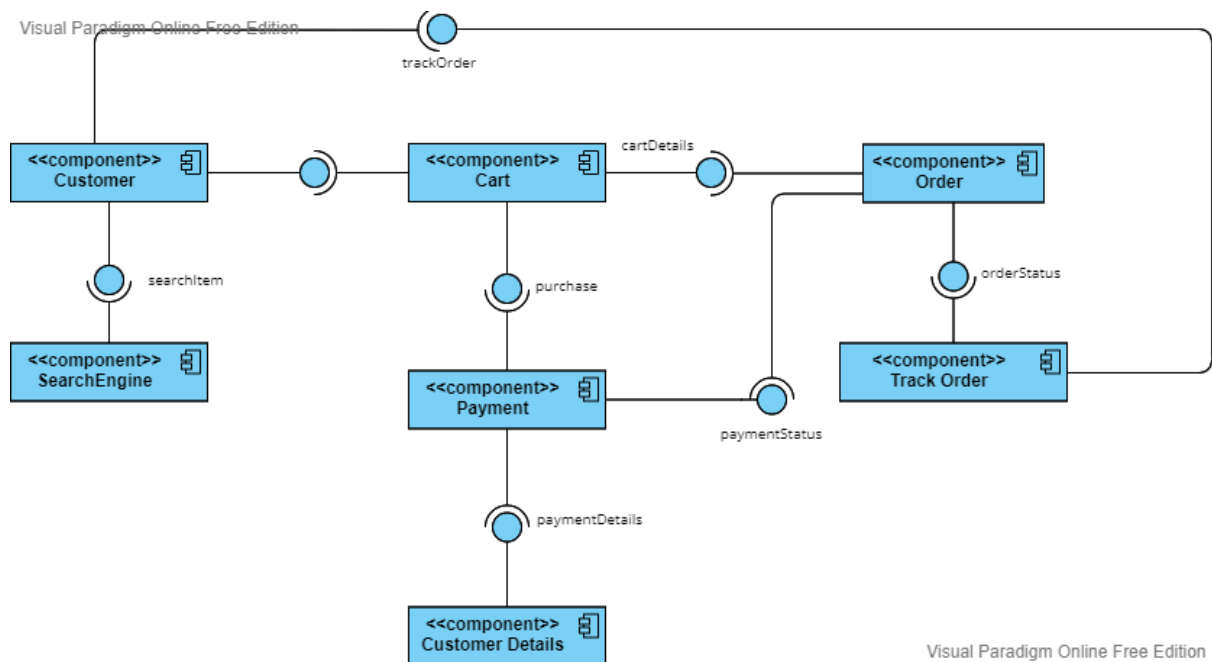
Select one of the following system to draw package, component and deployment diagrams:

- a. Hospital System
- b. Bank System
- c. Online Shopping System

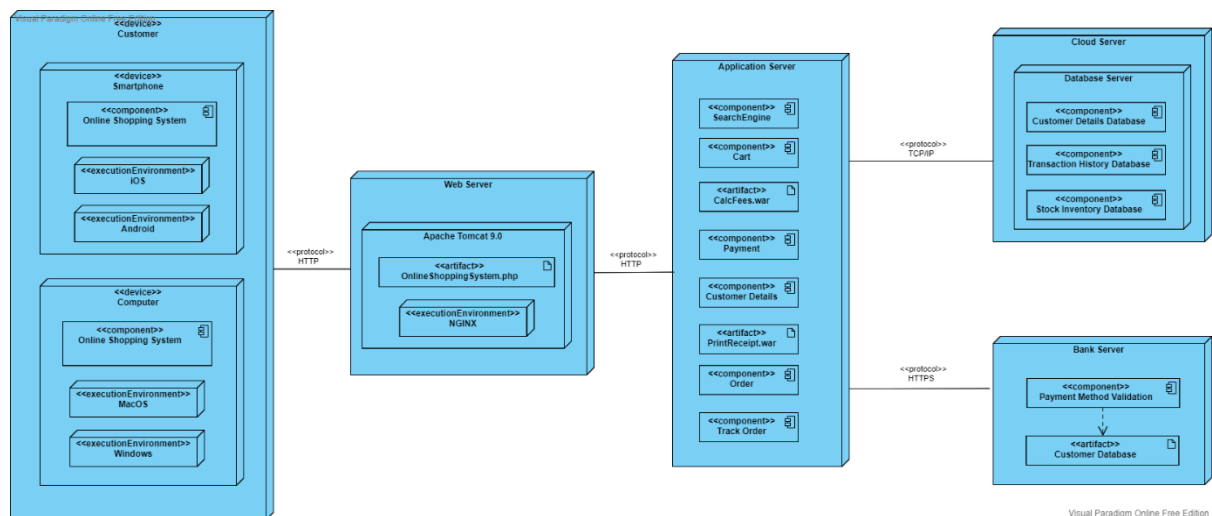
Clarify what are architecture decisions reflected by your diagrams

Package Diagram

Component Diagram



Deployment Diagram



The architecture style that is applied in Online Shopping System is 3-Tier Architecture, which consists of presentation layer, logic layer and data layer. The presentation layer is the user interface that contains HTML, CSS, and JavaScript which will be shown on a web browser and allows interaction between the user and the system. Next, the logic layer acts as an interface between the presentation layer and database layer, such that it handles all processing functions including data insertion, data modification, calculations and so on. Lastly, the data layer is responsible for data storage and performing necessary operations such as SQL statements into the database.

3-tier architecture ensures modifiability, as the developer can modify without affecting other layers. Moreover, security can be enhanced by securing each layer differently based on different security requirements. Lastly, it ensures availability because other layers remain available when 1 layer fails.